

## Receiving Report

Date: 10/6/22

Batch No: 115010

Supplier: mtchen

Dart P/O: 12116

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☒ No ☐ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection ☒ N/A ☐  
 Work Order 66623 N/A ☒

### Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

[Signature]

Production/Admin:

Date 10/6/23

Received/Costing

Initial CS

Location \_\_\_\_\_

## Page 1 of 1

All amounts are calculated in domestic currency.

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-MAR001	Marmon/Keystone Canada Ltd.								
PO12116	1		M303R0.750	f	6/22/10	6/22/10	85.0000	\$4.15	0.0000	0	\$352.75
CAD	No		303 Round Bar 0.750	f	84.0000	DCUSER		\$352.75	0.0000	0	
			115010								
	2		M304TR0.500W.049	f	6/22/10	6/22/10	200.0000	\$1.45	0.0000	0	\$290.00
	No		304 RD Tube .500 x .049W	f	200.0000	DCUSER		\$290.00	0.0000	0	
			115010								
	3		M304TR0.750W.049	f	6/22/10	6/22/10	300.0000	\$1.90	0.0000	0	\$570.00
	No		304 RD Tube .750 x .049W	f	300.0000	DCUSER		\$570.00	0.0000	0	
			115010								
	4		M6061T6T0.500W.049	f	6/22/10	6/22/10	108.0000	\$2.14	0.0000	0	\$231.12
	No		6061-T6 RD Tube .500 x.049W	f	108.0000	DCUSER		\$231.12	0.0000	0	
			115010								
Total Received Quantity:										693.0000	
Total Qty to Inspect (PO U/M):										0.0000	
Total Reject Quantity:										0.0000	
Total Receipt Value:										\$1,443.87	
Total Balance Due Quantity:										0.0000	



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO12116

Purchase Order Date 6/18/10

PO Print Date 6/18/10

Page Number 1 of 2

Order From :

VC-MAR001

MARMON/KEYSTONE CANADA LTD.  
290 CHEMIN DU TREMBLAY  
BOUCHERVILLE, QC J4B 5X9  
CA

Contact Name

Vendor Phone

800 361 8142

Vendor Fax

450 641 4357

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

*Handwritten: PO 12116*

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M303R0.750	303 Round Bar 0.750	6/22/10 Yes	84.00	TST ground	\$4.1500	\$348.60
		<i>Good</i> Special Inst: MATERIAL: 303 SS ROUND BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE <i>REC U 85 Pci/d/c/10</i>					
2	M304TR0.500W.049	304 RD Tube .500 x .049W	6/22/10 Yes	✓ 200.00	TST ground	\$1.4500	\$290.00
		<i>Good</i> Special Inst: MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 <i>108 Pci/d/c/10</i>					
3	M304TR0.750W.049	304 RD Tube .750 x .049W	6/22/10 Yes	✓ 300.00	TST ground	\$1.9000	\$570.00
		<i>Good</i> Special Inst: AS ABOVE <i>Pci/d/c/10</i>					

Change Nbr: 1

Change Date: 6/18/10

*CZ W*  
No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO12116

Purchase Order Date 6/18/10

PO Print Date 6/18/10

Page Number 2 of 2

Order From :

VC-MAR001

MARMON/KEYSTONE CANADA LTD.  
290 CHEMIN DU TREMBLAY  
BOUCHERVILLE, QC J4B 5X9  
CA

Contact Name

Buyer

Chantal Lavoie

Vendor Phone

800 361 8142

Requisition Nbr

Vendor Fax

450 641 4357

Tax Resale Nbr

10127-2607

Vendor Account Nbr

Terms

Net 30

Currency

CAD

FOB

4	M6061T6T0.500W.049	6061-T6 RD Tube .500 x.049W	6/22/10	✓ 108.00	TST ground	\$2.1400	\$231.12
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Yes

f

Special Inst:

MATERIAL: 6061-T6 OR 6061-T62  
TUBING PER  
WW-T-700/6 OR AMS 4080 OR AMS 4082  
OR  
QQ-A-200/8 OR QQ-A-225/8

Good

PO Total:

\$1,439.72

MATERIAL CERTIFICATION  
REQD UPON DELIVERY

W CL

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

Change Nbr: 1

Change Date: 6/18/10



**Marmon/Keystone Canada Inc.**

ACIERS SPÉCIALISÉS

290 Chemin du Tremblay  
Boucherville QU CAN J4B 5X9  
TEL. 514/527-9153  
FAX. 450/641-4357

**PACKING SLIP**

PAGE...: 1  
Order : 1089638  
Date...: 06/21/2010

SOLD TO: \_\_\_\_\_

DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY ON CAN K6A 1K7

SHIPPED TO: \_\_\_\_\_

DART AEROSPACE LTD  
1270 ABERDEEN STREET

HAWKESBURY ON CAN K6A 1K7

SHIP VIA		F.O.B.	SALESPERSON	YOUR ORDER NO.	
TST OVERLAND #222212		BOUCHERVILLE	G. Dulude	12116	
Ordered	Description	Number Pieces	Quantity Shipped	Back Ordered	
01	84 /FT Fax all papers to Linda Lacelle 613-632-1053 Mill tests required with all shipment STAINLESS ROUND BAR SBR .750 CD 303 Cust. part#: M303R0.750 HT#.....: 250383 Total...	7 7	85/FT 2 IN 85/FT 2 IN		
02	200 /FT STAINLESS STEEL SEAMLESS TUBE SMLS TUBE 304L 1/2 X .049 A213 STS .500 .049 304L Tariff Number: 7304. Cust. part#: M304TR0.5800W.049 HT#.....: SLA20907017 Total...	10 10	200/FT 200/FT		
03	300 /FT STAINLESS STEEL SEAMLESS TUBE SMLS TUBE 316L 3/4 X .049 A213 STS .750 .049 316L Tariff Number: 7304. Cust. part#: M304TR0.750W.049 HT#.....: TGB090301 Total...	15 15	300/FT 300/FT		
04	108 /FT ALUMINUM SMLS TUBE ATS .500 .049 D6061 Tariff Number: 7608.20.00.90 Cust. part#: M6061T6T0.500W.049 HT#.....: F00003098 HT#.....: F00005125 HT#.....: F00009464 Total...	1 3 5 9	12/FT 36/FT 60/FT 108/FT		

No. of Bbds Crates 0 / 1 Total Weight 294

Customers.: \_\_\_\_\_



A Marmon Distribution Services/Berkshire Hathaway Company

# Acciaierie Valbruna S.p.A.



## CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005), 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besetzer/Purchaser/Cliant  
VALBRUNA CANADA LTD  
8724 HOLGATE CRESCENT  
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**  
Hersteller/Item/Usine productrice

Avviso di Spedizione: D-VI10005120  
Lieferanzeige/Packing list/B.L.

Ordine nr: 911002482 Stock - Canada  
Bestell/Your order/Commande

Certificato nr: MEST838038/2010/  
Prüfung/Test/Essai

Conferma ordine nr: E109006720  
Werke/Our Order/Rai nr.

Marchio di Fabbrica:  
Zeichen des Lieferwerkes  
Trade mark  
Sigle de fusine productrice



Oggetto Prove: - Annealed Cold Drawn  
Prüfgegenstand/Item inspected/Finissage

Tipo di Elaborazione: E+AOD  
Erschmelzungsart/Melting process/Mode d'elaboration

Punzone del Collaudatore:  
Stempel des Werkstoffverständigen  
Inspector's stamp/Pointon de l'assesseur

Specifiche:  
Anforderungen / Requirements / Exigences  
VAL CANADA 2 303 A,CF  
ASTM A314 2008 S30300  
DOD-F-24669 6 S30300  
(0) SEC.II PT.A 2007 EDITION ADD. 2008a

AMS 5640 U TYPE1  
ASTM A320 2008 B8F  
MIL-S-862 B/1 303

ASME SA320-2007 B8F (0)  
ASTM A582 2005 S30300  
QQ-S-764 B/2 303

Qualità: 303  
Werkstoff/Grade/Nuance

Marca: MV188ZHS MAXIVAL  
Markenbezeichnung/Brand/Nuance

Punzonatura: 303  
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Nr. de poste	Oggetto Gegenstand Product description Description du produit	Dimensioni - In Abmessungen Dimensions	Tolleranza Toleranz Tolerance	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot nr. Lot nr.
0010	Round	0,7500	484-08	148 / 148	250383		2.379	931100020

Sono state soddisfatte tutte le condizioni richieste  
Die gestellten Anforderungen sind i. Anlage erfüllt  
The material has been furnished in accordance with the requirements  
Le matériel a été livré conforme aux exigences

Controllo antimescolanza: OK  
Verwechslungsprüfung: spektralanalytisch durchgeführt  
Antimixing testing performed: OK  
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze:  
Beseichtigung und Ausmessung: ohne Beanstandung  
Visual inspection and dimensional checks: satisfactory  
Contrôle visuel et dimensionnel: satisfaisant

TEST ALLO STATO DI FORNITURA Test on delivery condition Prüfung auf lieferbarem Produkt test à l'état de fourniture Prueba sobre el material así como entregado										
TEST	Provetta/Probestück Sprosschen/Probestück Long diam. Size Worth Diam. Thickness Long diam. Split mm	°F	Posiz. Saggio Probestück Endabmessung 1)	Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Resistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Enschürfung Reduction of area Striction RA %	Resilienza Reschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max			30	-	75	-	35	-	140 241
A	12,5	68	L	66		100	43	52		230

1) L=longitudinale/longs, T=transversale/quer, Q=Tangenziale/tangentiel

### Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Heat Schmelze/Heat	min - max 0,150	1,00	2,00	17,00 19,00	0,60	1,00	8,00 10,00	0,15	0,15 0,40	0,400	-	-	-	-	-
250383	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %				
	0,037	0,41	1,77	17,42	0,45	0,60	8,42	0,150	0,03	0,35	0,010				

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 0.5 h/water.

Micro and macro etch test: OK

Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TÜV and LLOYD'S

MARMON / KEYSTONE  
Q.C. REVIEWED  
DATE INITIAL  
5/19/10 JA

Vicenza, 19/02/10 VCO008 (Mod. MGER)	Il collaudatore di stabilimento / der Werkstoffverständiger / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 1
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CRYSTAL-PALACE

## SHANGHAI CRYSTAL PALACE PIPE CO., LTD

ZHONG GANG, NAN HUI, SHANGHAI CHINA ZIP CODE: 201302

## MILL TEST CERTIFICATE

ISO9001:2000 ; PED Material CERTIFICATE (No.: QAC0021058/A)

DATE OF ISSUE: 2010/3/29

CUSTOMER: MARMON/KEYSTONE CANADA INC.							CERTIFICATE NO.: 2010-1-10-B-4						
P.O.NO.: BN6549							ORDER NO.: 2010-01-010-B						
COMMODITY: STAINLESS STEEL SEAMLESS TUBING							GRADE: ASTM A213-07 TP304/TP304L						
CONDITION: COLD FINISH / SOLUTION TREATED / PICKLED / PLAIN END / OD POLISHED 320 GRIT.							HEAT NO.: SLA209070171						
CHEMICAL CONTENTS (WT%)													
ELEMENTS			C	Mn	P	S	Si	Ni	Cr				
SPECIFICATION			≤ 0.035	≤ 2.00	≤ 0.040	≤ 0.030	≤ 0.75	8.0~12.0	18.0~20.0				
RESULTS ( LADLE )			0.019	1.11	0.032	0.001	0.39	8.07	18.12				
PHYSICAL PROPERTIES													
Dimensions			Bundle No.	Pieces	Weight (kg)	0.2%YS (Mpa) ≥ 205	T S (Mpa) ≥ 515	EL (%) ≥ 35	FLARING TEST	FLATTENING TEST	HARDNESS HRB ≤ 80	EDDY CURRENT TEST TO E426 (100%)	
O.D (inch)	W.T (inch)	Length (feet)											
0.500	0.049	20	10-2-158	100	217	330	695	64.0	OK	OK	74	OK (DRILLED HOLE)	
<div> <div> REMARKS:  AS PER ASTM A213-07  WALL THICKNESS TOLERANCE AS PER ASTM A269-07  IN COMPLIANCE TO NACE MR0175-2002  SOLUTION HEAT TREATMENT : 1050°C X 1.5m/min  IC TEST TO ASTM A262 PRACTICE E  NO WELD REPAIR WAS PERFORMED  FREE FROM MERCURY CONTAMINATION  COUNTRY OF ORIGIN: CHINA  MILL TEST CERTIFICATE TO EN 10204/3.1  INVOICE NO: YK-10-03-83 </div> <div> SHANGHAI CRYSTAL PALACE PIPE CO., LTD  MAY 19 2010  MANAGER OF QUALITY ASSURANCE DEPARTMENT </div> </div>													



CRYSTAL-PALACE

## SHANGHAI CRYSTAL PALACE PIPE CO., LTD

ZHONG GANG, NAN HUI, SHANGHAI CHINA ZIP CODE: 201302

## MILL TEST CERTIFICATE

ISO9001:2000 ; PED Material CERTIFICATE (No.: QAC0021058/A)

DATE OF ISSUE: 2010/5/28

CUSTOMER: MARMON/KEYSTONE CANADA INC.						CERTIFICATE NO.: 2010-1-10-A-12						
P.O.NO.: MN6548						ORDER NO.: 2010-01-010-A						
COMMODITY: STAINLESS STEEL SEAMLESS TUBING.						GRADE: ASTM A213-07 TP316/TP316L						
CONDITION: COLD FINISH / SOLUTION TREATED / PICKLED / PLAIN END / OD POLISHED 320 GRIT.						HEAT NO.: TGB090301						
CHEMICAL CONTENTS (WT%)												
ELEMENTS	C	Mn	P	S	Si	Ni	Cr	Mo				
SPECIFICATION	≤0.035	≤2.00	≤0.040	≤0.030	≤0.75	10.0~14.0	16.0~18.0	2.00~3.00				
RESULTS (LADLE)	0.026	0.79	0.038	0.003	0.38	11.09	16.56	2.07				
PHYSICAL PROPERTIES												
Dimensions			Bundle No.	Pieces	Weight (kg)	0.2%YS (Mpa) ≥205	T S (Mpa) ≥515	EL (%) ≥35	FLARING TEST	FLATTENING TEST	HARDNESS HRB ≤80	EDDY CURRENT TEST TO E426 (100%)
O.D (inch)	W.T (inch)	Length (feet)										
0.375	0.065	20	10-1-125	50	99	370	620	52.5	OK	OK	73	OK (DRILLED HOLE)
0.750	0.049	20	10-2-85	40	135	285	610	52.5	OK	OK	74	OK (DRILLED HOLE)
0.750	0.065	20	10-1-250	50	220	290	615	58.5	OK	OK	72	OK (DRILLED HOLE)
REMARKS:						1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT						
AS PER ASTM A213/ASME SA213-07						2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE COMPANY.						
WALL THICKNESS TOLERANCE AS PER ASTM A269-07						SHANGHAI CRYSTAL PALACE PIPE CO., LTD  MANAGER OF QUALITY ASSURANCE DEPARTMENT						
IN COMPLIANCE TO NACE MR0175-2002												
SOLUTION HEAT TREATMENT: 1050°C X 1.5m/min												
IC TEST TO ASTM A262 PRACTICE E												
NO WELD REPAIR WAS PERFORMED												
FREE FROM MERCURY CONTAMINATION												
COUNTRY OF ORIGIN: CHINA												
MILL TEST CERTIFICATE TO EN 10204/3.1												
INVOICE NO: YK-10-03-83												

Q.C. Reviewed

28/06/01/10



# KAISER ALUMINUM

FABRICATED PRODUCTS

*Best in Class*

**CERTIFIED TEST REPORT**  
<http://www.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: 60-37240		CUSTOMER PART NUMBER: AT/5.049/734		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: 202050	LINE ITEM: 001	SHIP DATE: 07/21/2008	KAISER LOT NUMBER: F00003098	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 660.000 LB	QUANTITY: 676.000 PCS	B/L NUMBER: 201263	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: MARMON/KEYSTONE CORP 10700 MARMON DR BOLINGBROOK, IL 60440 USA			SOLD TO: MARMON/KEYSTONE CORP 10700 MARMON DR BOLINGBROOK, IL 60440 USA		

## Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	COMTACS	BEND
F00003098	0001	1	44.4	41.1	14.0	N/A	N/A	N/A
F00003098	0002	1	46.3	42.7	14.0	N/A	N/A	N/A

## Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	La	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
R6469	.61	.33	.23	.06	.95	.08	.06	.02	.00	.00	.01	.01	.03
R6298	.62	.30	.23	.05	1.01	.09	.05	.02	.00	.00	.01	.01	.03

**Q. C. REVIEWED**

## CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file subject to examination.

Wilfredo A. delaCruz, Sr. Metallurgical Engineer

Plant Serial: 00002565

*Wilfredo A. delaCruz*

Kaiser Order Number: 202050

Page 1 of 2

Line Item: 001

AT

.5.049

734

# KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

*Best in Class*

CERTIFIED TEST REPORT  
<http://www.KaiserAluminum.com>

## Applicable Requirements:

Description: OD: 0.500"; Wall: 0.049"; Round @  
AMS-4082N ASTM-B210-04 WW-T-700/6F  
WE TAKE EXCEPTION TO PARA. 5.2.1. Per AMS 4082N, WAS NOT OILED.  
THE FOLLOWING SPECIFICATION HAVE BEEN MADE INACTIVE OR  
CANCELLED: MIL-T-7081, WW-T-700F/GEN, WW-T-700/2E, WW-T-700/3F,  
WW-T-700/4F, WW-T-700/5E, WW-T-700/6F, WW-T-700/7B.  
COMPLIES TO DIN EN 10204 JAN 2005

*S. 10/04/23*

## Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

**Q. C. REVIEWED**

## CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Wilfredo A. delaCruz, Sr. Metallurgical Engineer

*Wilfredo A. delaCruz*

Page 2 of 2

Plant Serial: 00002565

Kaiser Order Number: 202050

Line Item: 001

06/12/2009 From: MARMON/KEYSTONE CORPORATION

To:

M/K OR::

INIT.::

OR.REF::

C.P.O.::

SLSPRS::

C PART::

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

**CERTIFIED TEST REPORT**

<http://Certs.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
8573 W. WILLIS ROAD  
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: 60-5843-3		CUSTOMER PART NUMBER: AT/.5.049/734		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: 203269	LINE ITEM: 003	SHIP DATE: 05/19/2009	KAISER LOT NUMBER: F00005125	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 604.000 LB	QUANTITY: 619.000 PCS	B/L NUMBER: 202311	DRAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: MARMON/KEYSTONE CORP 10700 MARMON DR BOLINGBROOK, IL 60440 USA			SOLD TO: MARMON/KEYSTONE CORP 10700 MARMON DR BOLINGBROOK, IL 60440 USA		

**Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00005125	0001	1	47.3	43.7	13.0	N/A	N/A	N/A
F00005125	0002	1	43.9	40.3	14.0	N/A	N/A	N/A
F00005125	0003	1	48.4	44.7	14.0	N/A	N/A	N/A

**Chemical Composition (wt%), Aluminum Remainder**

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D66960	.61	.32	.22	.06	1.00	.10	.05	.03	.00	.00	.00	.01	.02

**Applicable Requirements:**

Description: MADE IN USA

OD: 0.500"; Wall: 0.049"; Round

AMS-4082F ASTM-B210-04 WW-T-700/6F

WE TAKE EXCEPTION TO PARA. 5.2.1. Per AMS 4082F, WAS NOT OILED.

THE FOLLOWING SPECIFICATION HAVE BEEN MADE INACTIVE OR

CANCELLED: MIL-T-7081, WW-T-700F/GEN, WW-T-700/2E, WW-T-700/3F,

WW-T-700/4F, WW-T-700/5E, WW-T-700/6F, WW-T-700/7B.

COMPLIES TO DIN EN 10204 JAN 2005

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Wilfredo A. delaCruz, Sr. Metallurgical Engineer

Plant Serial: 00004353

Kaiser Order Number: 203269

Line Item: 003

Page 1 of 2

*Wilfredo A. delaCruz*

*ATS .500 .049*

*D6061 T6*

06/12/2009 From: MARMON/KEYSTONE CORPORATION

To:

M/K OR::

INIT.::

OR. REF::

C.P.O.::

SLSPRS::

C PART::

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

**CERTIFIED TEST REPORT**

<http://Certs.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

**Miscellaneous Notes**

MANUFACTURED IN USA MELTED IN USA

**Q. C. REVIEWED**

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Wilfredo A. delaCruz, Sr. Metallurgical Engineer

*Wilfredo A. delaCruz*

Plant Serial: 00004353

Kaiser Order Number: 203269

Line Item: 003

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

**CERTIFIED TEST REPORT**  
<http://Certs.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: 60-8448-2		CUSTOMER PART NUMBER: AT/5.049/734		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: 204865	LINE ITEM: 002	SHIP DATE: 03/15/2010	KAISER LOT NUMBER: F00007464	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 677.000 LB	QUANTITY: 694.000 PCS	B/L NUMBER: 204185	DIAMETER THICKNESS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: MARMON/KEystone CORP 10700 MARMON DR BOLINGBROOK, IL 60440 USA			SOLD TO: MARMON/KEystone CORP 10700 MARMON DR BOLINGBROOK, IL 60440 USA		

## Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON% IACS	BEND
F00007464	0001	1	44.4	42.1	14.0	N/A	N/A	N/A
F00007464	0002	1	42.3	39.0	14.0	N/A	N/A	N/A

## Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D67867	.59	.32	.20	.05	.99	.07	.05	.02	.00	.00	.00	.00	.01

*S →*

MARMON / KEYSTONE

Q.C. REVIEWED	
DATE	INITIAL
5/04/10	JA

## CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Chris Garcia, Quality System Engineer

Plant Serial: 00006505

*Christopher J. Garcia*

Kaiser Order Number: 204865

Line Item: 002

Page 1 of 2

*ATS .500 .049 D6061 TP*

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

**CERTIFIED TEST REPORT**  
<http://Certs.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
6573 W. WILLIS ROAD  
CHANDLER, AZ 85226

**Applicable Requirements:**

Description: MADE IN USA

OD: 0.500"; Wall: 0.049"; Round  
AMS-4082P ASTM-B210-04 WW-T-700/6F

*S 10/06/23*

WE TAKE EXCEPTION TO PARA. 5.2.1. PER AMS 4082P, WAS NOT OILED.  
THE FOLLOWING SPECIFICATION HAVE BEEN MADE INACTIVE OR  
CANCELLED: MIL-T-7081, WW-T-700F/GEN, WW-T-700/2E, WW-T-700/3F,  
WW-T-700/4F, WW-T-700/5E, WW-T-700/6F, WW-T-700/7B.  
COMPLIES TO DIN EN 10204 JAN 2005  
COMPLIES TO DFAR 252.225-7001 and DFAR 252.225-7014  
No Weld Repair. Mercury Free.

**Miscellaneous Notes**

MANUFACTURED IN USA MELTED IN USA

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Chris Garcia, Quality System Engineer

Plant Serial: 00006505

Kaiser Order Number: 204865

*Christopher J. Garcia*

Page 2 of 2

**Q. C. REVIEWED** Item: 002